



Figure similar

Data sheet for SIMOTICS M-1PH8

Article No. : 1PH8103-1DF02-0BH1

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data

		P _N [kW]	M _N [Nm]	I _N [A]	U _N [V]	f _N [Hz]	n _N [rpm]	M _{max} [Nm]	I _{max} [A]	n _{max} [rpm]	M ₀ [Nm]	I ₀ [A]	η	cos φ	I _μ [A]
Y	ALM 400V	6.3	34.0	13.1	412	60.8	1,750	60	23.0	9,000	38.0	14	0.859	0.810	6.0
	BLM/SLM 400V	5.5	35.0	13.5	368	52.4	1,500	60	23.0	9,000	38.0	14	0.852	0.800	6.5
	ALM/BLM/SLM 480V	7.0	33.0	12.7	460	69.1	2,000	60	23.0	9,000	38.0	14	0.894	0.810	5.8

Mechanical data

Motor type	Squirrel cage asynchronous motor
Shaft height	100
Cooling	Forced ventilation DE -> NDE
Vibration severity grade	R/A
Shaft and flange accuracy	R
Degree of protection	IP55
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Standard (Anthracite RAL 7016)
Type of the bearing	Standard with fixed bearing
Shaft end	Plain shaft
Encoder system	Incremental encoder 22 bit with commutation position 11 bit, max. encoder speed = 12000 rpm

External fan

Max. power consumption

3 AC 400 V / 50 Hz (±10%)	0.13 A
3 AC 400 V / 60 Hz (±10%)	0.09 A
3 AC 480 V / 60 Hz (±10%)	0.13 A

¹⁾ at a rated frequency of 4 kHz and a speed range of up to 5000 rpm

Physical constants

Thermal time constant	20 min
Moment of inertia	172 kgcm ²
Weight (approx.)	51 kg

Connection

Type of electrical connection	Power connector
Position of the connection	Power connector, top
Power connection	DE
Signal connection	left

Cooling data and sound pressure level

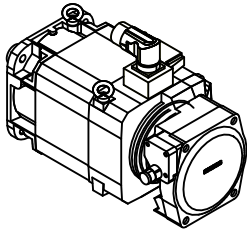
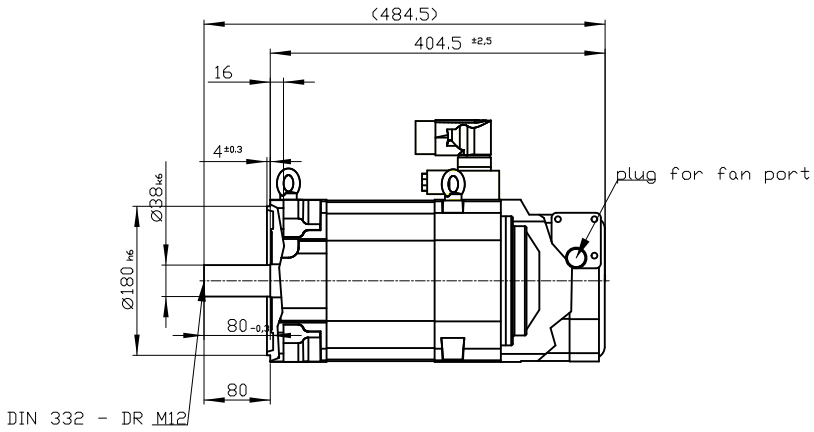
Airflow, min.	0.04 m³/s
Sound pressure level LpA(1m) motor + external fan operation 50 HZ rated load, tolerance + 3dB	70 dB ¹⁾
Air discharge	axial
Pressure drop	110 Pa

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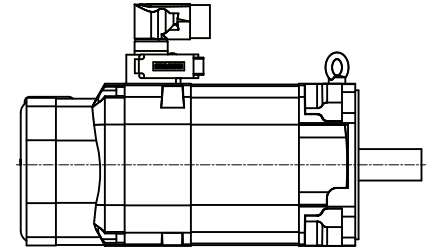
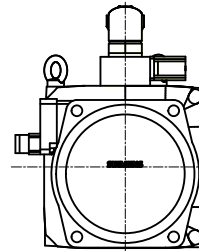
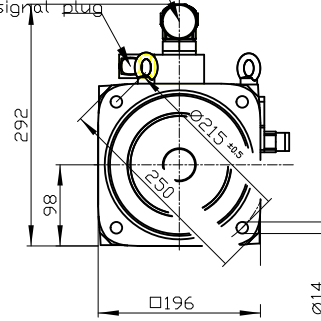
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6-pole plug size 1,5 for power
10 pole signal plug



Type of construction: IM B5 (IM V1, IM V3) / Type of protection: IP55

		-	
Terminal box		-	
Weight	Sl kg	1PH8103-1DF02-0BH1	
Unit	mm (in)	-	
Date	4/12/23	-	
SIEMENS AG			
not toleranced dimensions: ± 1		DT	